

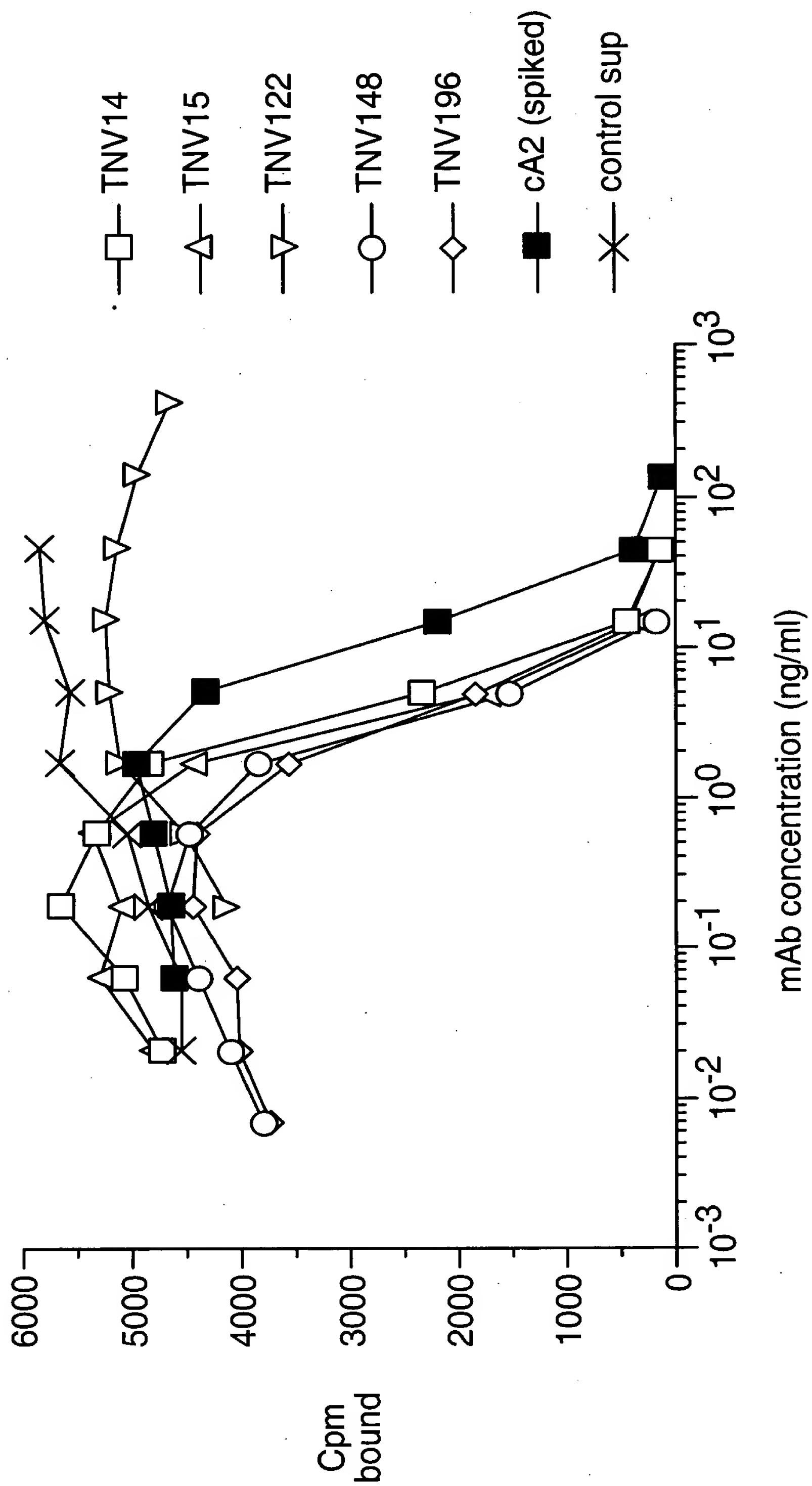
[illegible]

FIG. 2A

TNVs ATGGGGTTTGGGCTGAGCTGGGTTTTCTCGTTGCTCTTTTAAGA

germline Q V Q L V E S G G G V
CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTG

TNVs GGTGTCCAGTGT.....

TNV148 (B) GGTGTCCAGTGT.....A.....

germline V Q P G R S L R L S C A A S G
GTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGA

TNVs

germline F T F S S Y A M H W V R Q A P
TTCACCTTCAGTAGCTATGCTATGCACTGGGTCCGCCAGGCTCCA

TNV14,15

TNV148 (B)T.....

TNV196C.....

germline G K G L E W V A V I S Y D G S
GGCAAGGGGCTGGAGTGGGTGGCAGTTATATCATATGATGGAAGC

TNV14A....C.T.....T

TNV15T.....T.....T

TNV148 (B)C.....T....G.....

TNV196T.....

germline N K Y Y A D S V K G R F T I S
AATAAATACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCC

TNV14 .GC...A.G....G.....A.....

TNV15 ..C...A.G.....C.....

TNV148 (B)A.G.....

TNV196A.G.C.....G.....

FIG. 2B

	R	D	N	S	K	N	T	L	Y	L	Q	M	N	S	L
germline	AGAGACAATTCCAAGAACACGCTGTATCTGCAAATGAACAGCCTG														
TNV14	.....													
TNV15	.....G.....														
TNV148	.....C.....														
TNV148B	.....													
TNV196	.....T.....														

	R	A	E	D	T	A	V	Y	Y	C	A	R
germline	AGAGCTGAGGACACGGCTGTGTATTACTGTGCGAGA											
TNV14,15	.....GATCGAGGT											
TNV148(B)	.....A											
TNV196	.....T.....											

	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>G</u>	<u>M</u>	<u>D</u>	<u>V</u>	W
germline	TACTACTACTACTACGGTATGGACGTCTGG									
TNV14										
ATATCAGCAGGTGGAA	.....								
TNV15										
G.C	.....A.T..T.....									
TNV148(B)	...G.....A.....									
TNV196	..TGG.....A.....									

	G	Q	G	T	T	V	T	V	S	S
germline	GGGCAAGGGACCACGGTCACCGTCTCCTCAG									
TNV14	..C.....									
TNV15	..C.....									
TNV148(B)	..C.....									
TNV196	..C..G.....									



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FIG. 3

TNVs ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTC

germline
TNVs E I V L T Q S P A T
GAAATTGTGTTGACACAGTCTCCAGCCACC
CCAGATAACCACCGGA.....

germline
TNVs L S L S P G E R A T L S C R A
CTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCC
.....

germline
TNV14,15 S Q S V S S Y L A W Y Q Q K P
AGTCAGAGTGTTAGCAGCTACTTAGCCTGGTACCAACAGAAACCT
TNV148,196
.....TA.....

germline
TNVs G Q A P R L L I Y D A S N R A
GGCCAGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCC
.....

germline
TNVs T G I P A R F S G S G S G T D
ACTGGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGAC
.....

germline
TNVs F T L T I S S L E P E D F A V
TTCATCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTT
.....

Germline
TNVs Y Y C Q Q R S N W P P F T F G
TATTACTGTCAGCAGCGTAGCAACTGGCCTCCATTCACTTTTCGGC
.....

gerline
TNVs P G T K V D I K R
CCTGGGACCAAAGTGGATATCAAACGT
.....



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FIG. 4

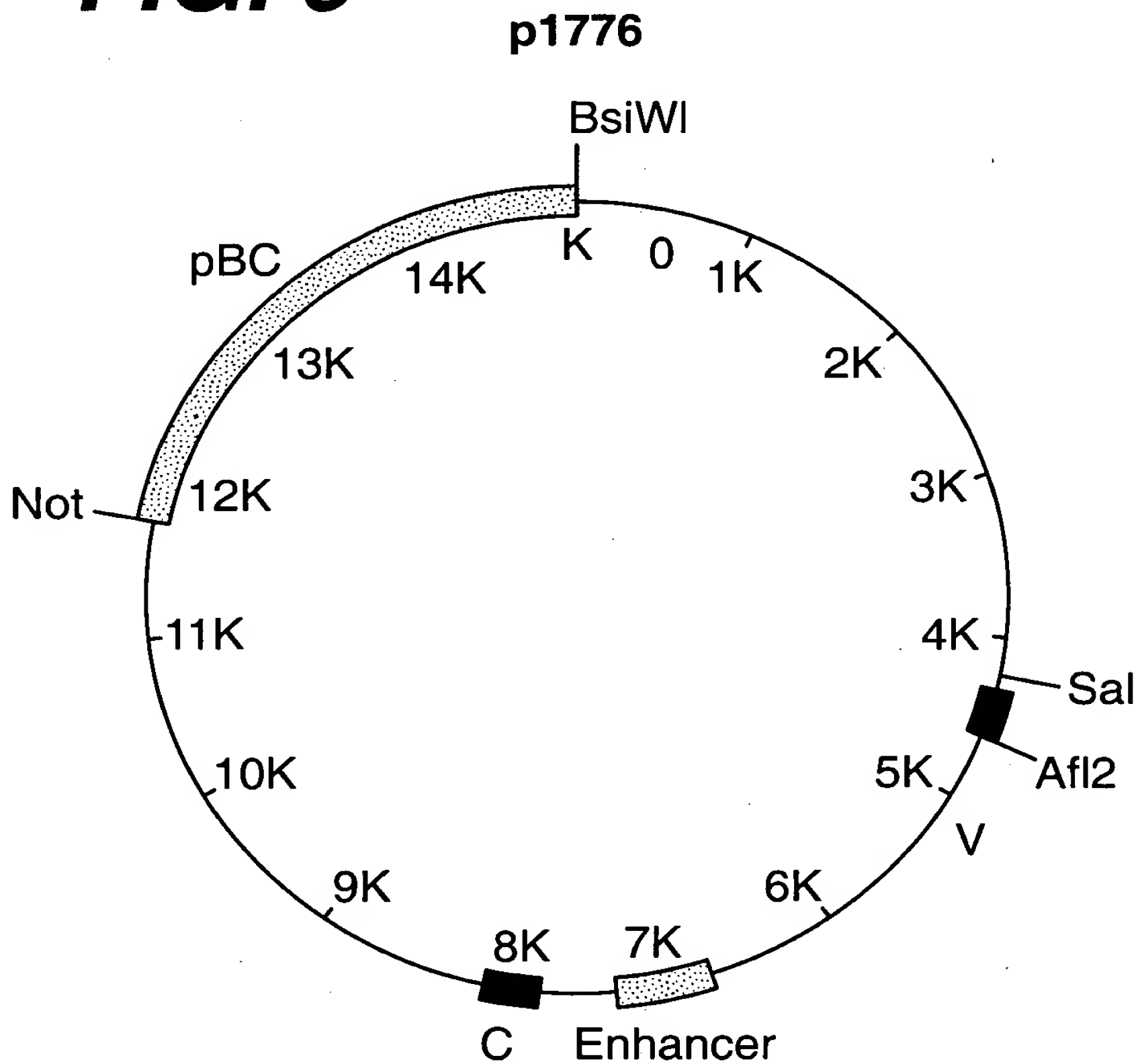
	germline	<u>MGFGLSWVFLVALLRGVQC</u>	signal
TNVs		
germline	QVQLVESGGGVVQPGRSLRLSCAASGFTFS		FR1
TNVs	.....	
TNV148 (B)	.....I..		
germline	SYAMH		CDR1
TNVs	.....	
germline	WVRQAPGKGLEWVA		FR2
TNVs	.....	
TNV148 (B)	.....N.....		
germline	VISYDGSNKYYADSVKG		CDR2
TNV14	I.L....S.K.....D		
TNV15	F.L.....K.....		
TNV148 (B)	FM.....K.....		
TNV196	F.....KS.....		
germline	RFTISRDN SKNTLYLQMNSLRAEDTAVYYCAR		FR3
TNV14	.....	
TNV15	.....A.....		
TNV148	.....P.....		
TNV148B	.....	
TNV196	...V.....F.....F.....		
germline	-----Y Y Y Y Y G M D V		CDR3
TNV14	DRGISAGGN.....		
TNV15	...V....N.....		
TNV148 (B)A...N.....		
TNV196G...N.....		
germline	WGQGTTVTVSS		J6
TNVs		

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FIG. 5

TNVs	MEAPAQLLFLLLLWLPDTTG	signal
germline	EIVLTQSPATLSLSPGERATLSC	FR1
TNVs	.....
germline	RASQSVSSYLA	CDR1
TNV14	.....
TNV15	.....
TNV148 (B)	.....Y....	
TNV196	.....Y....	
germline	WYQQKPGQAPRLLIY	FR2
TNVs	.....
germline	DASNRAT	CDR2
TNVs	.....
germline	GIPARFSGSGSGTDFTLTISSLEPEDFAVYYC	FR3
TNVs	.....
germline	QQRSNWPPFT	CDR3
TNVs	.....
germline	FGPGTKVDIK	J3
TNVs	

FIG. 6





2.320-17-36 = C466A (653)

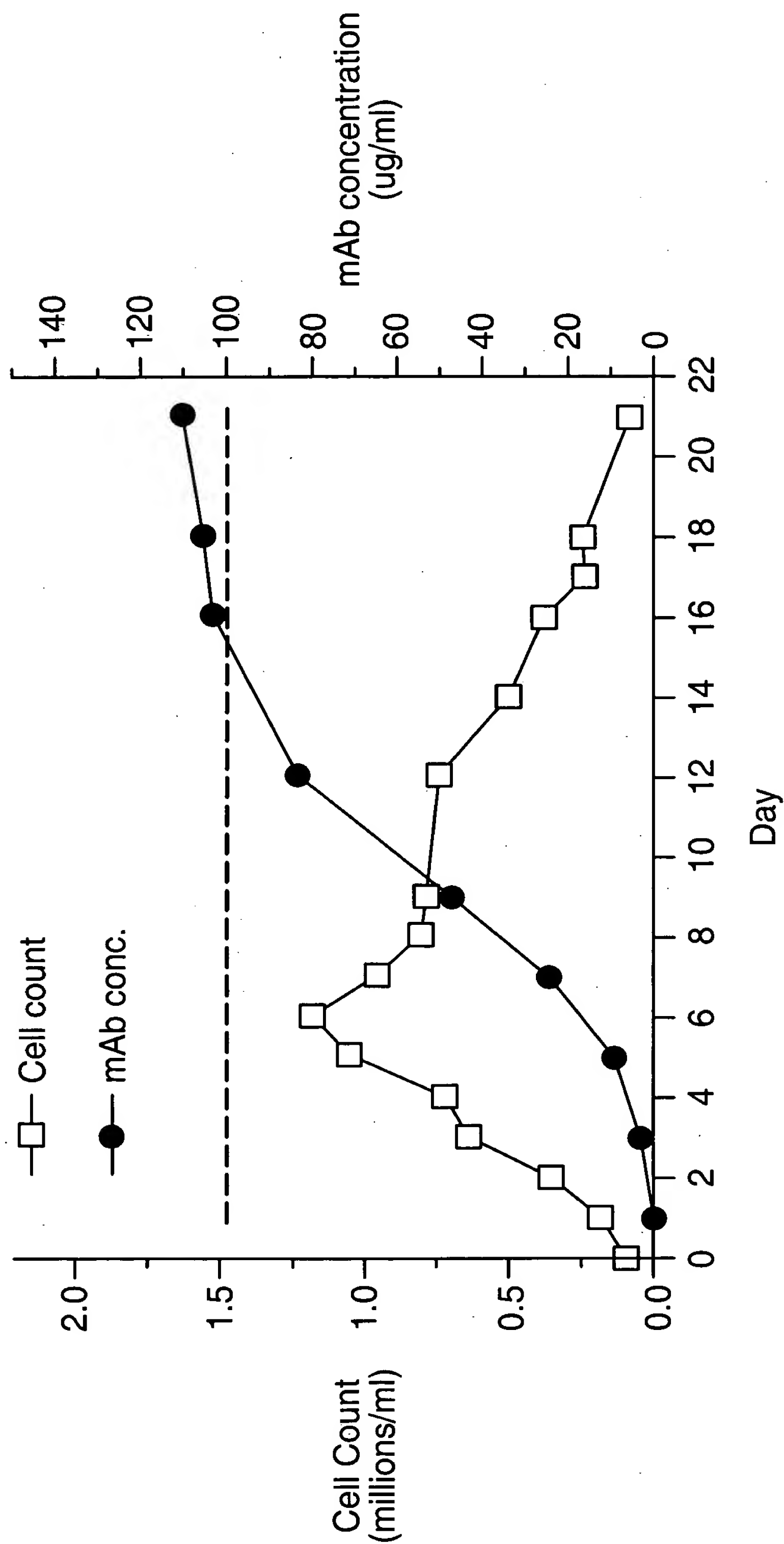
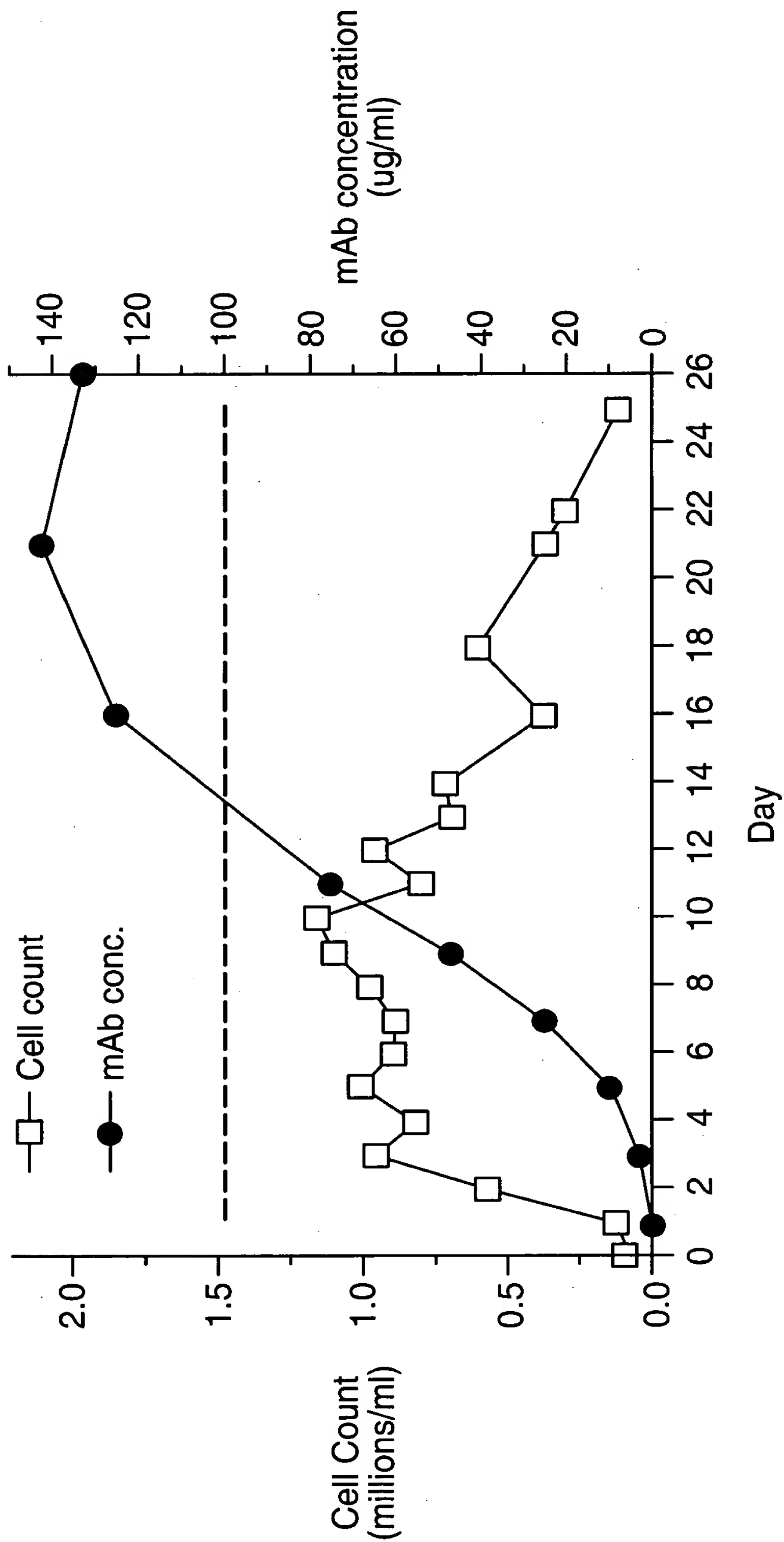


FIG. 7B

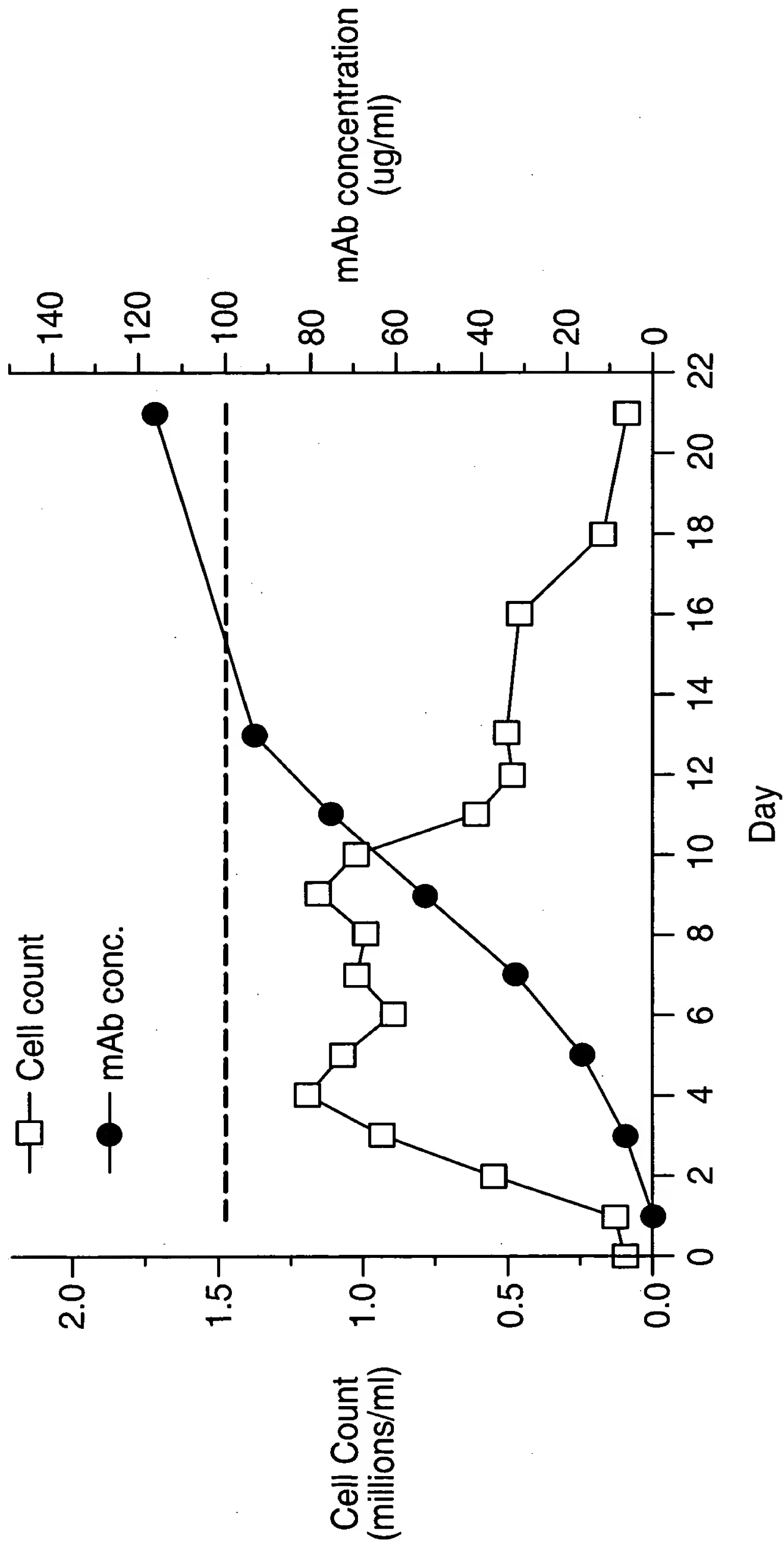
2.230-20-111 = C466B (653)



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FIG. 7C

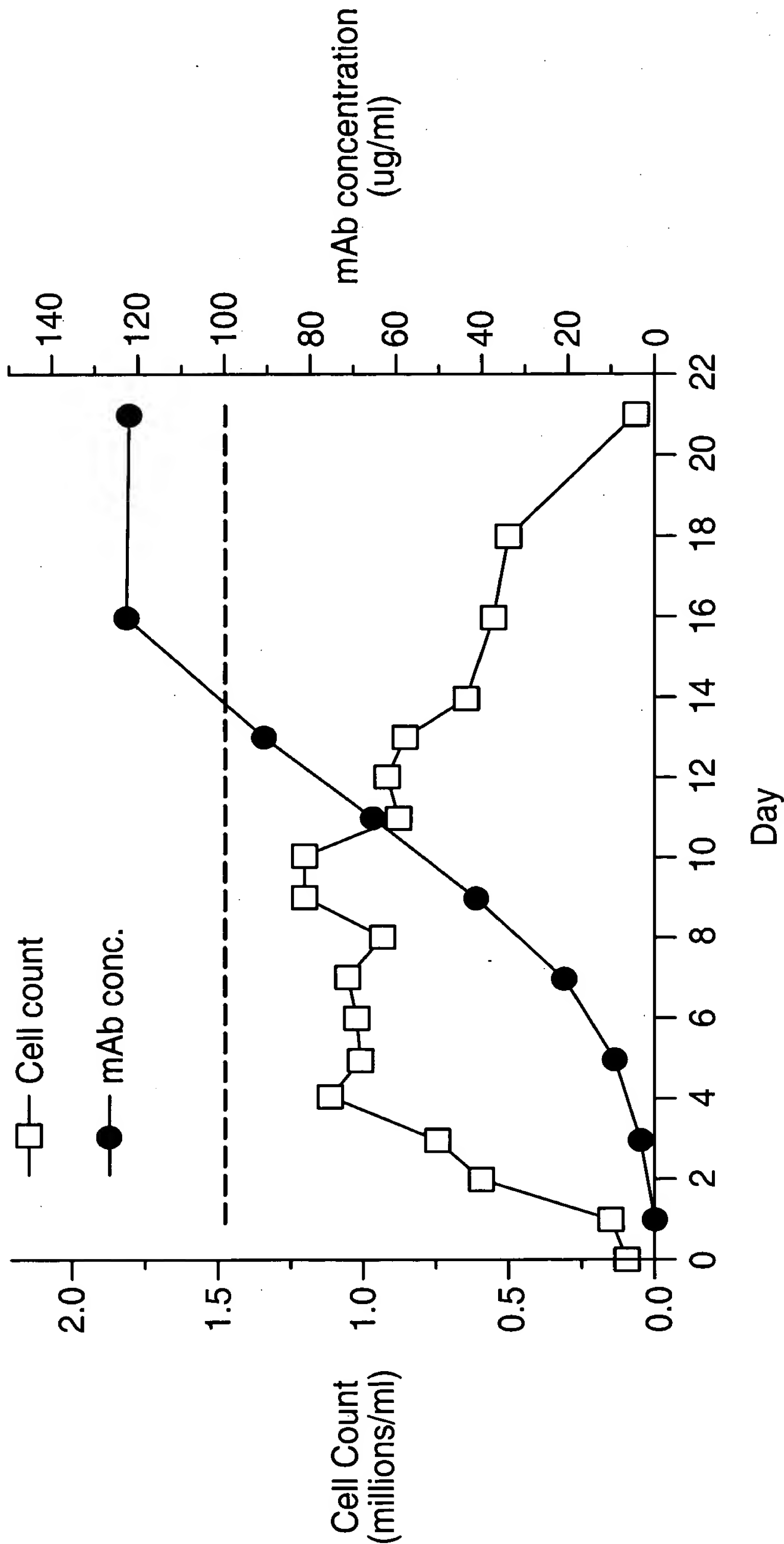
2.230-17-4 = C466C (653)



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FIG. 7D

2.320-20-99 = C466D (653)



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FIG. 7E

1.73-12-122 = C467A (SP2/0)

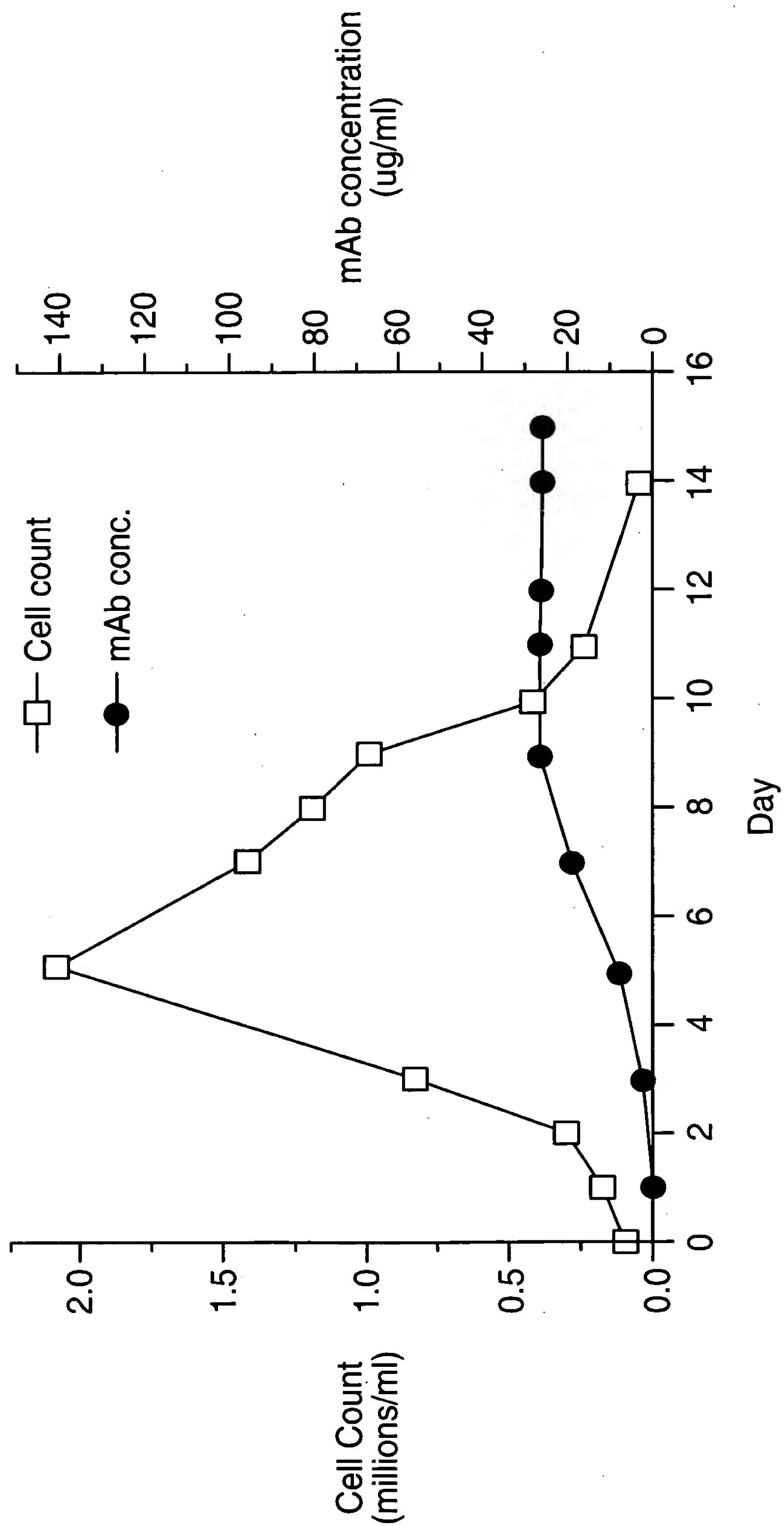
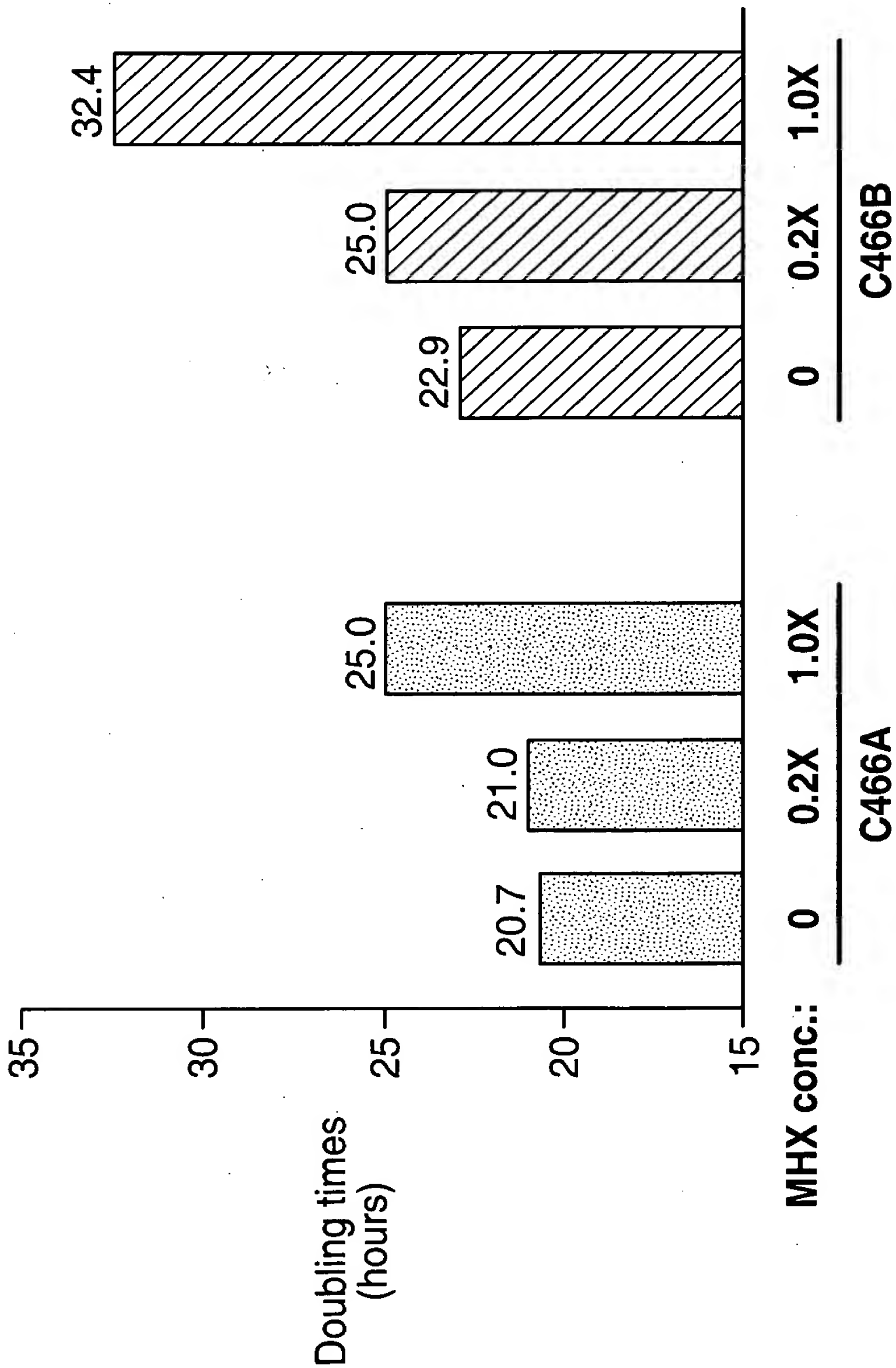


FIG. 8



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FIG. 9A

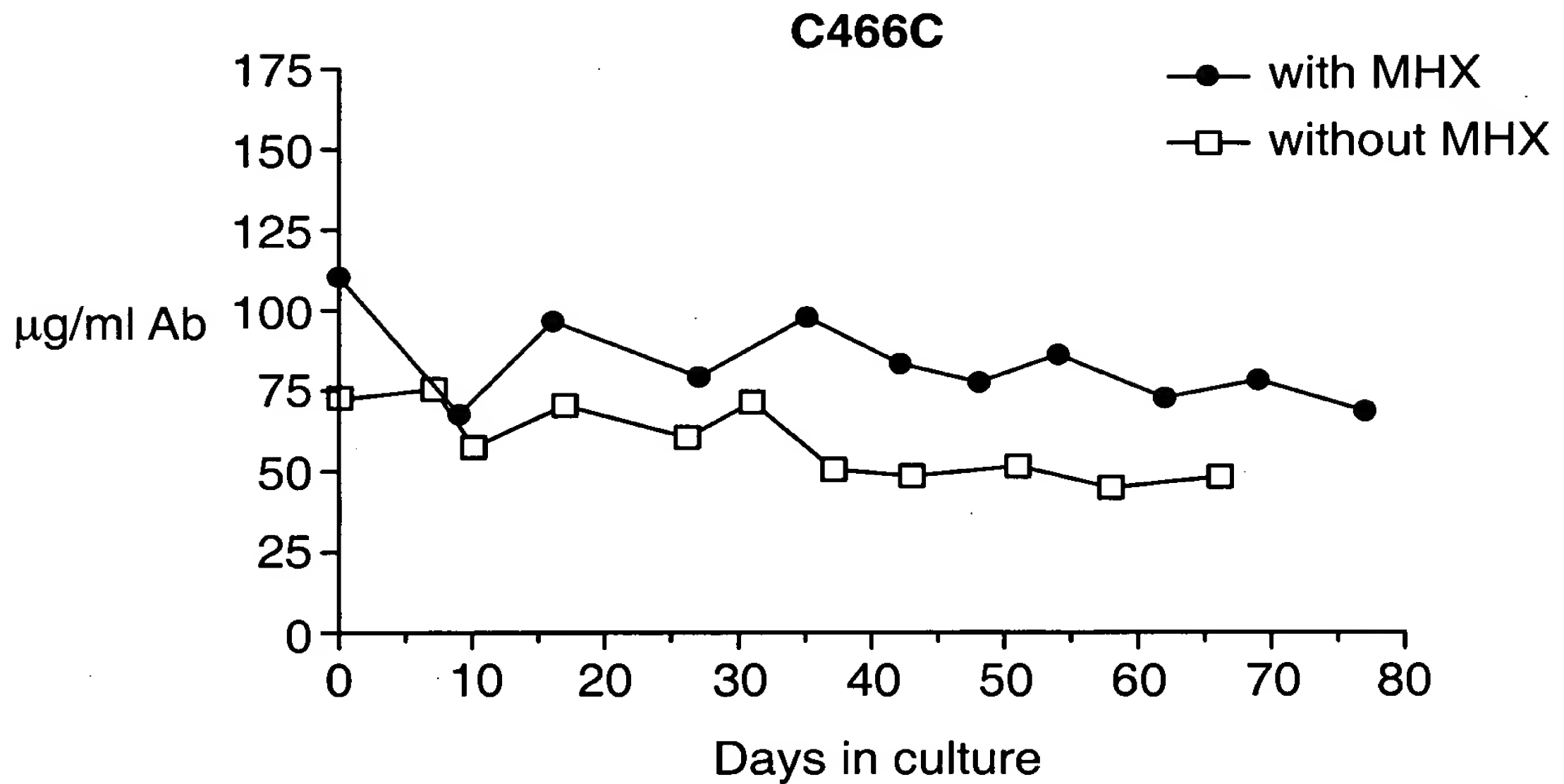


FIG. 9B

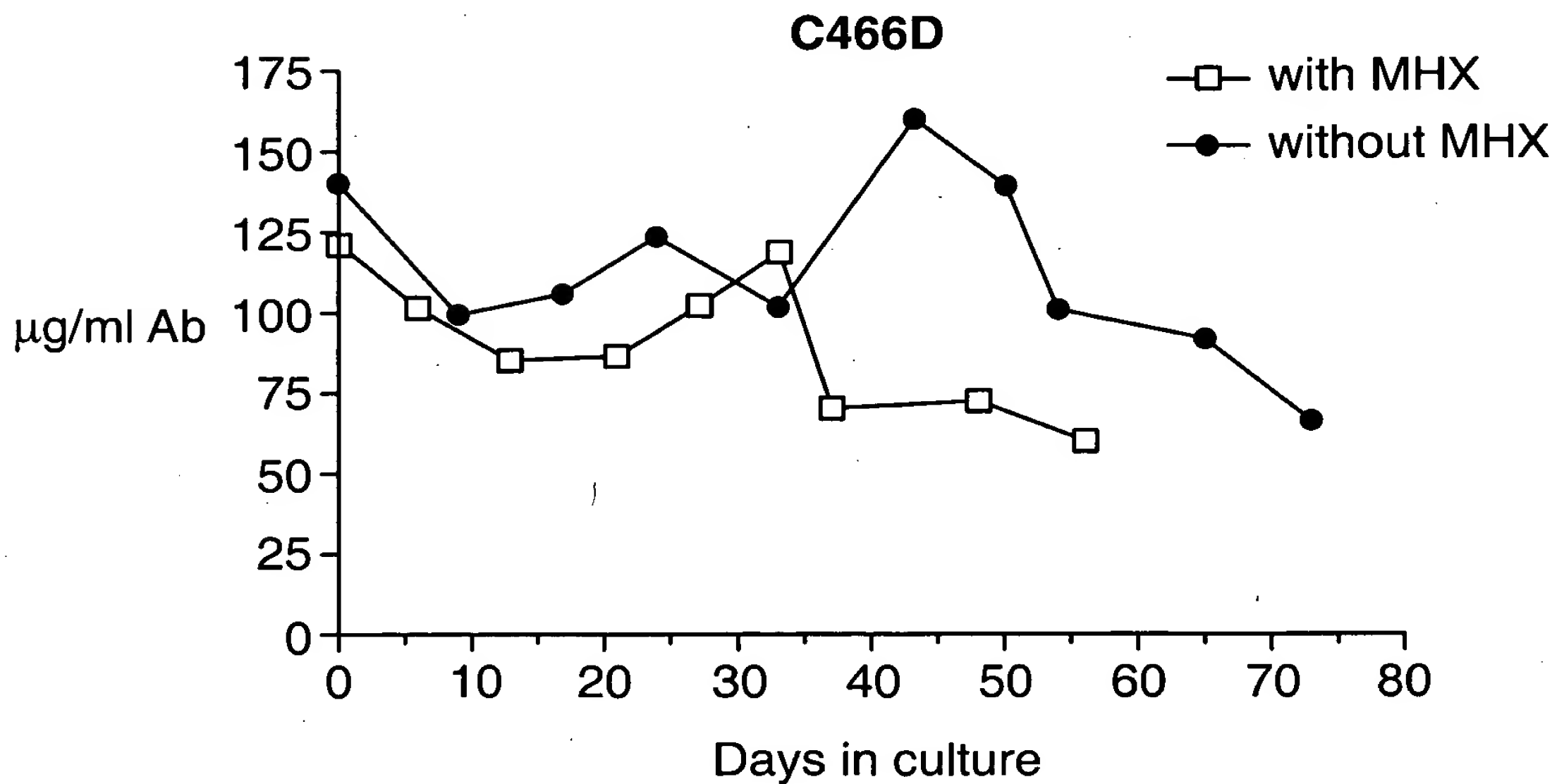


FIG. 10

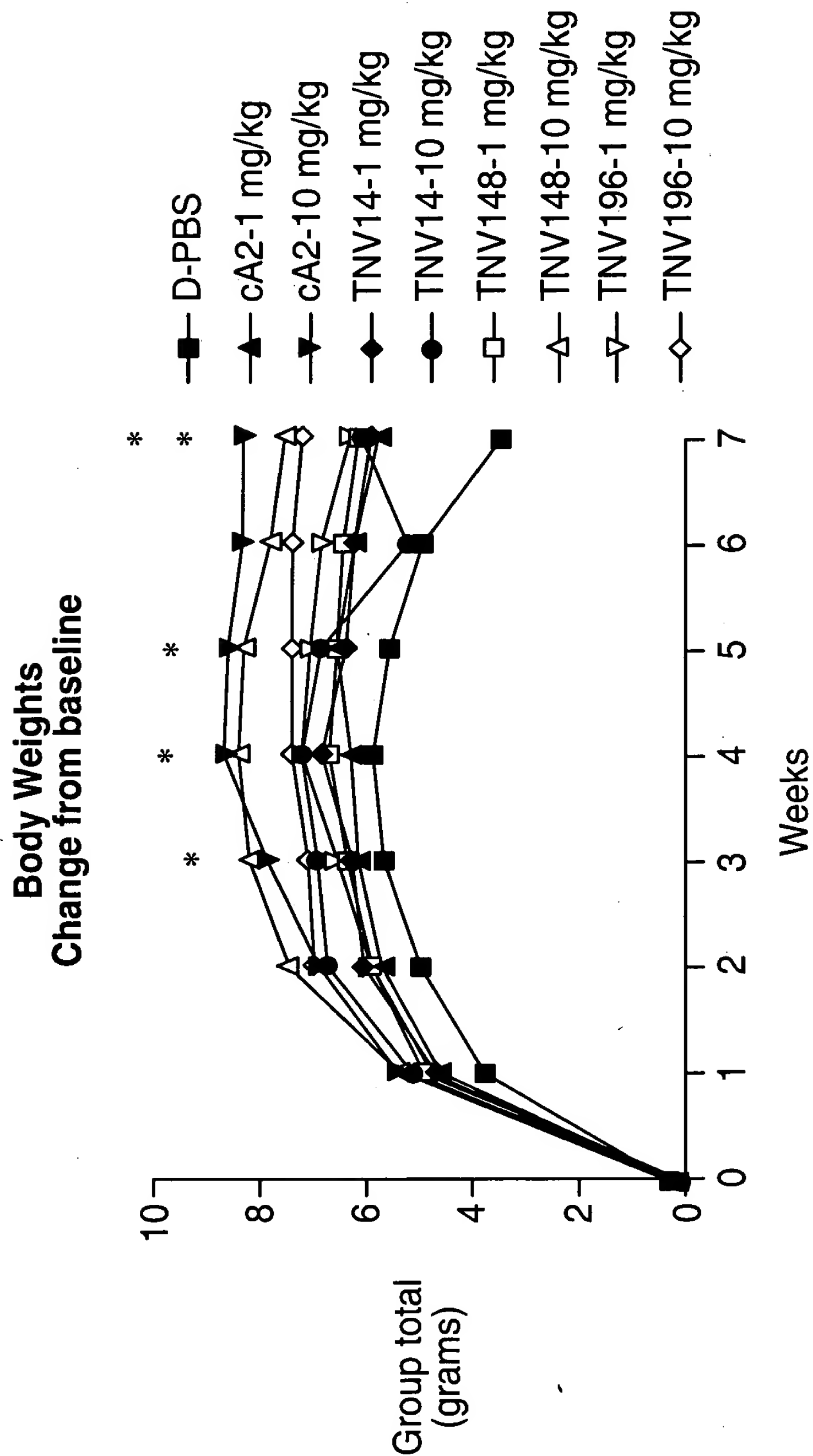


FIG. 11A



* denotes Groups NOT significantly reduced when compared to the D-PBS Group. All Groups not marked are significant ($p < 0.050$).

FIG. 11B

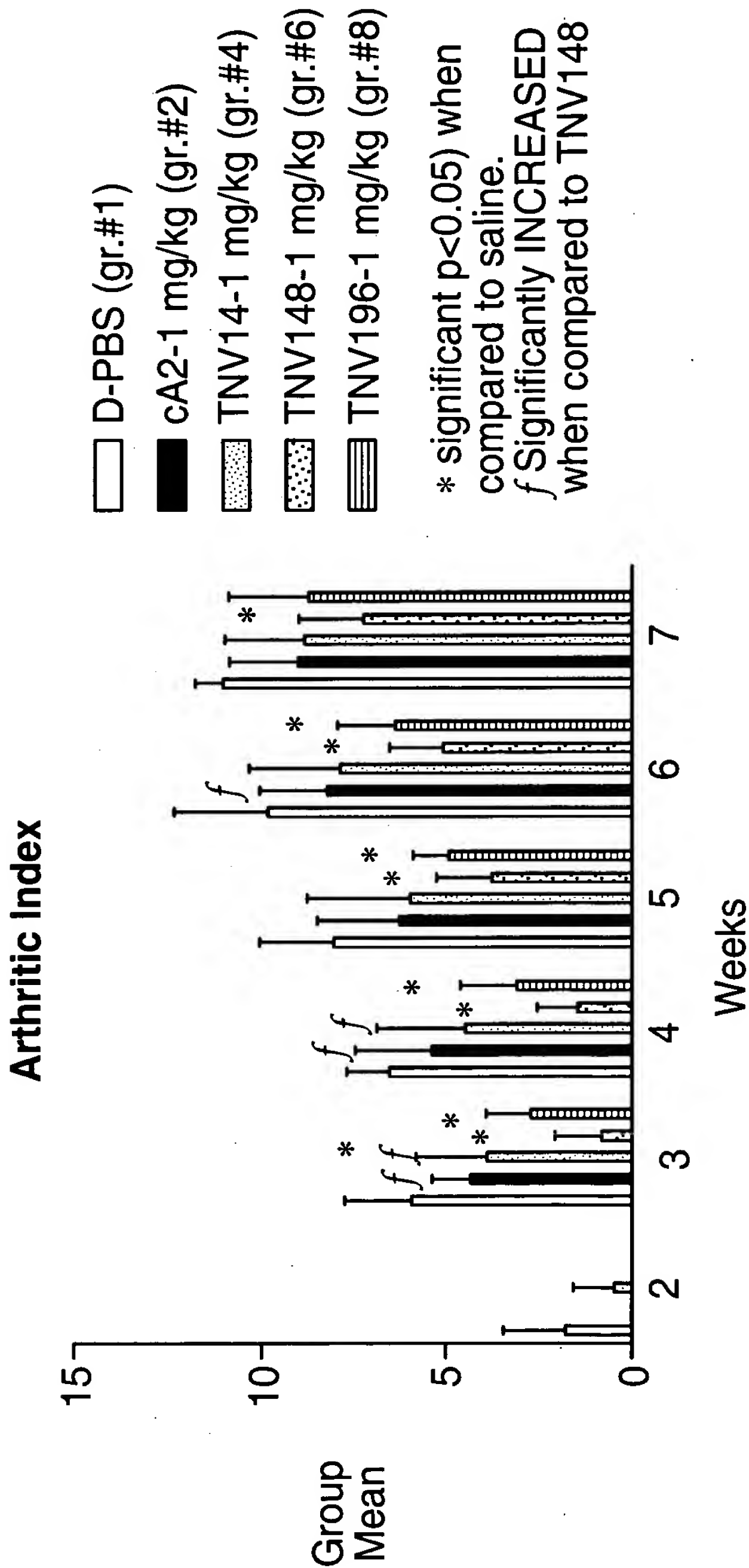
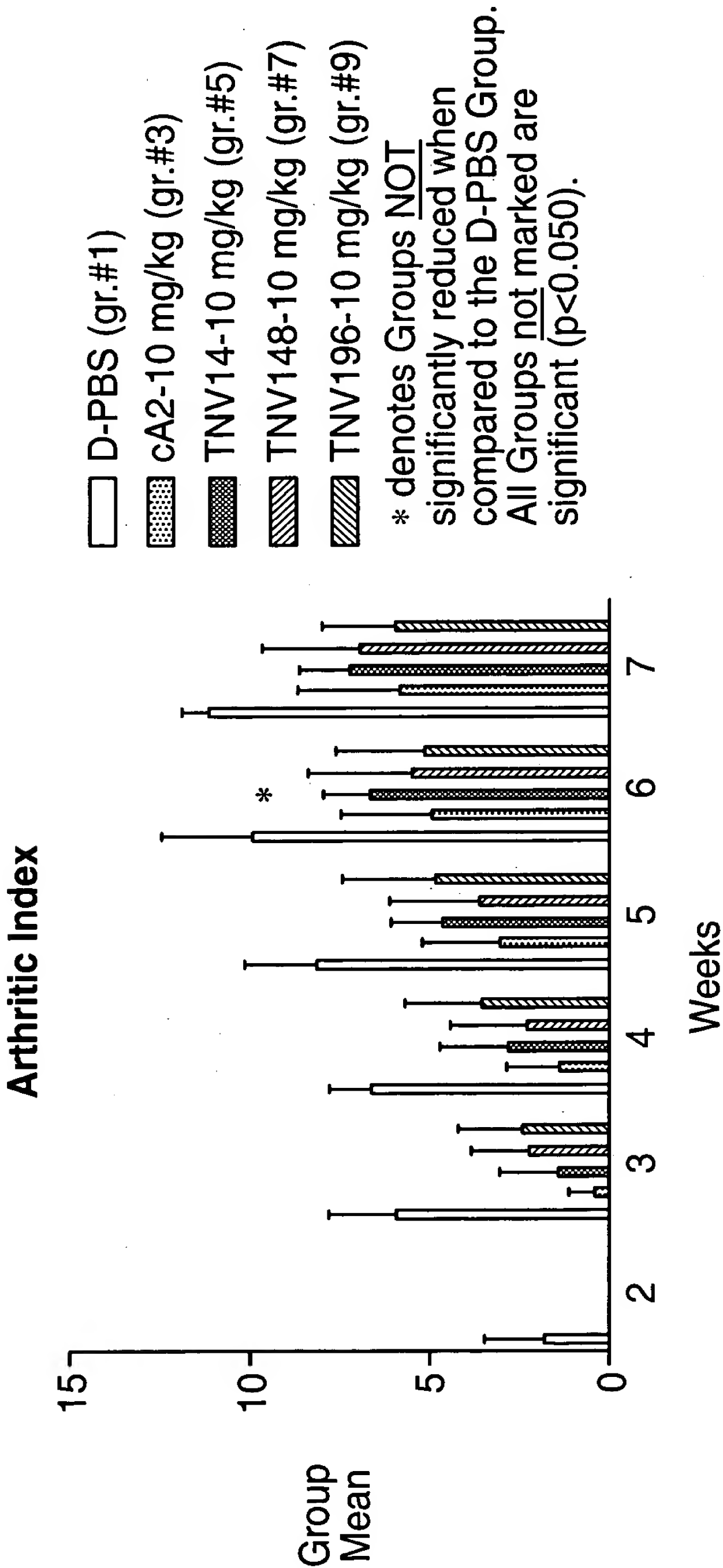


FIG. 11C



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FIG. 12

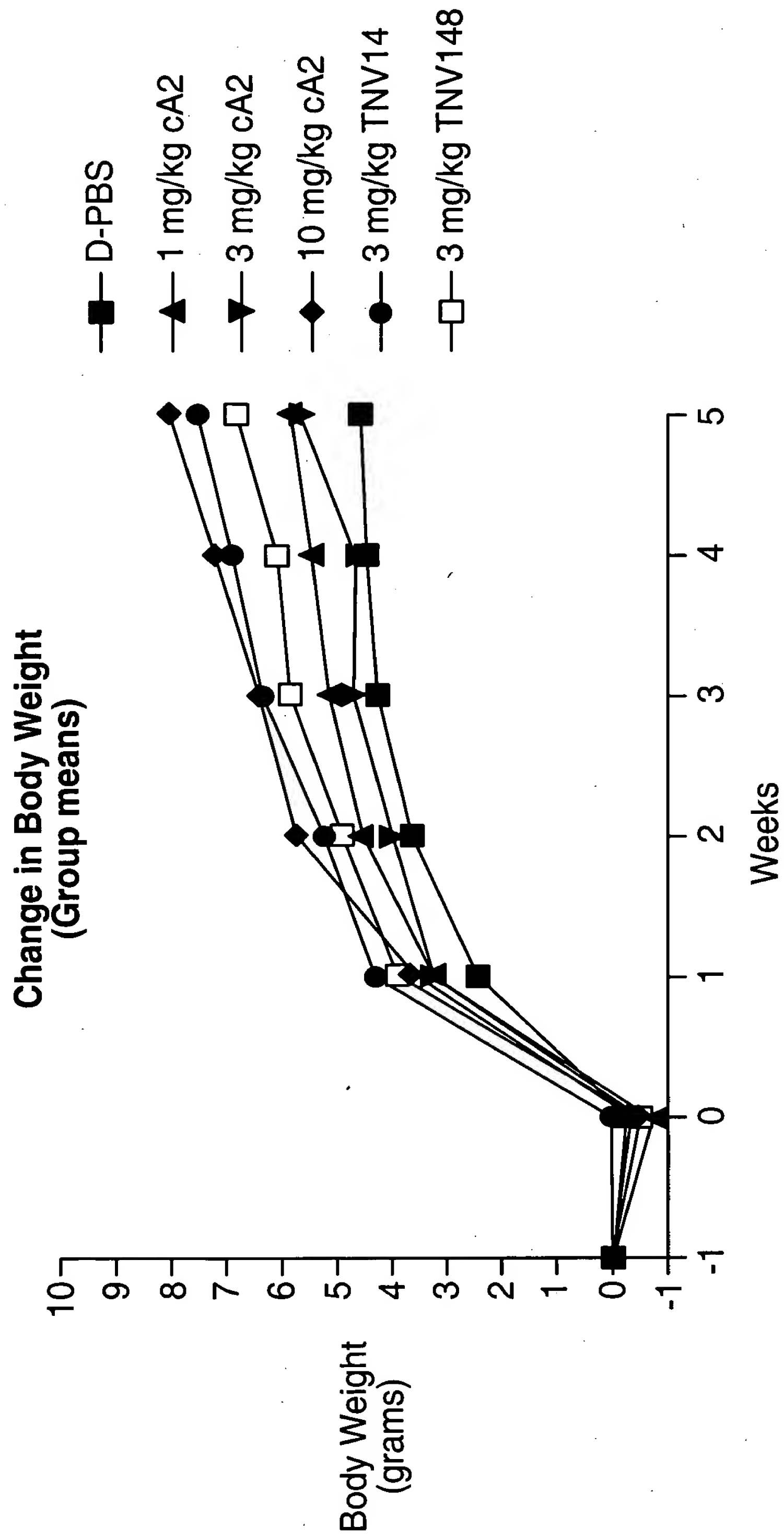


FIG. 13A

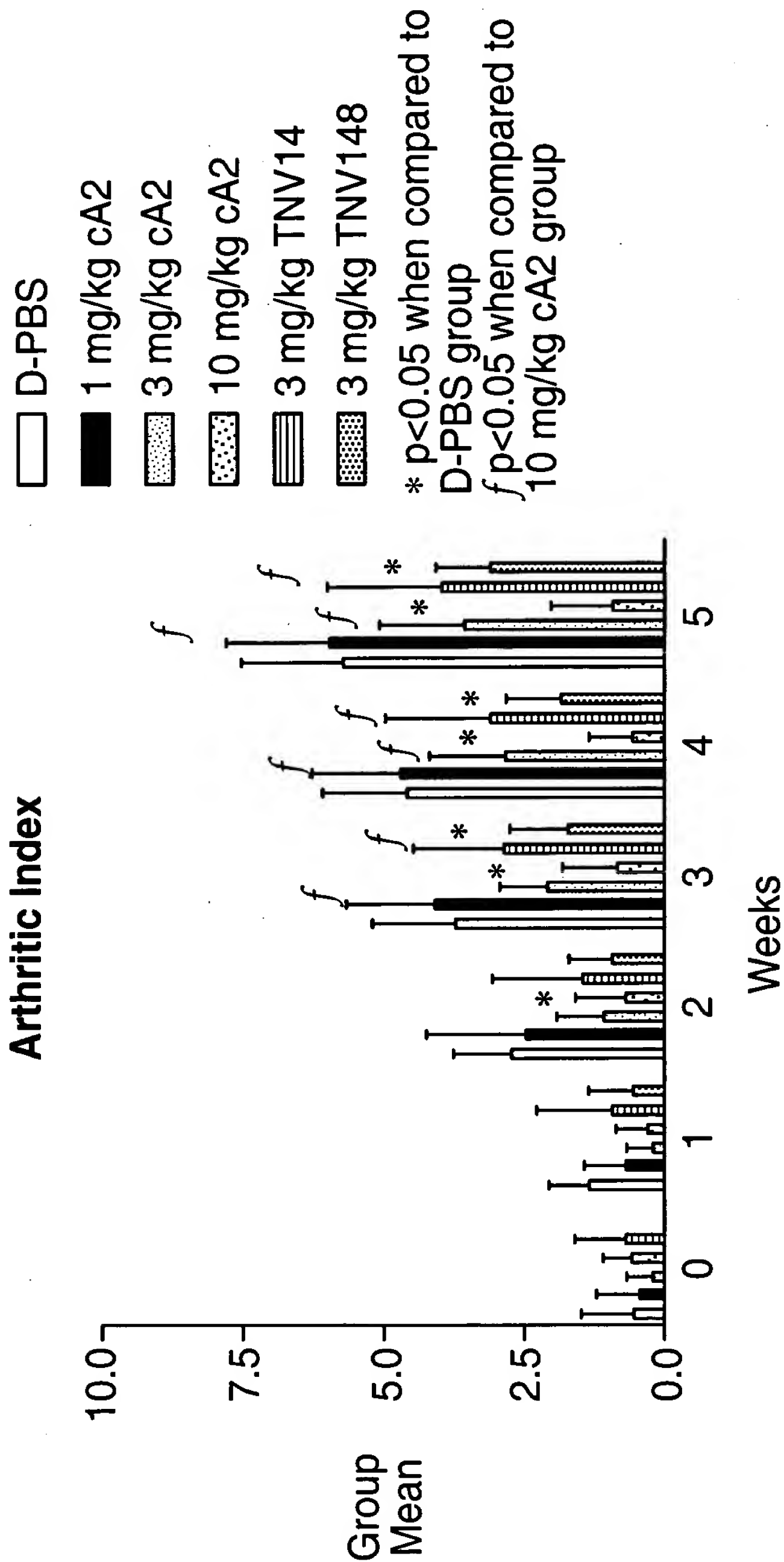


FIG. 13B

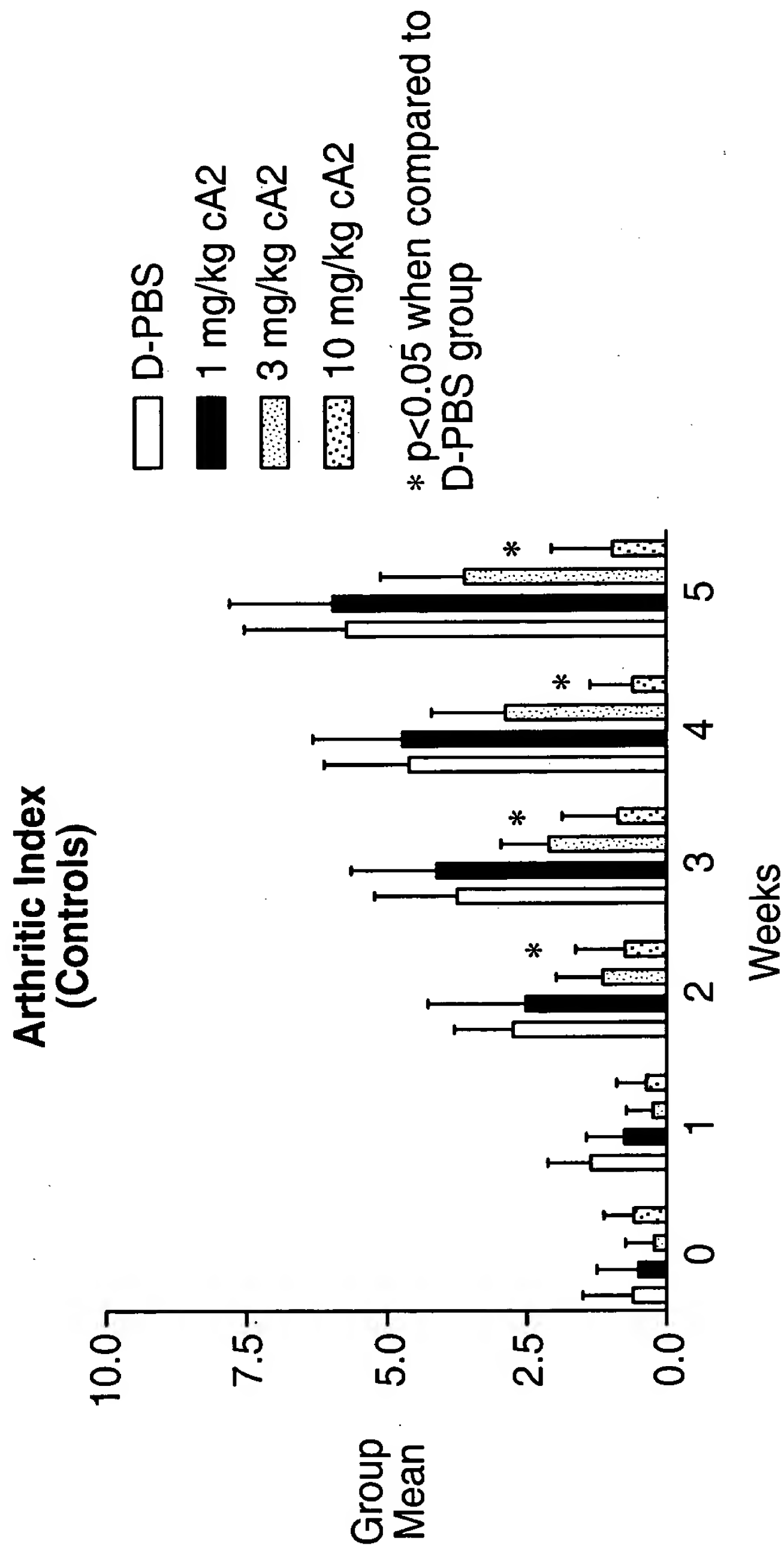
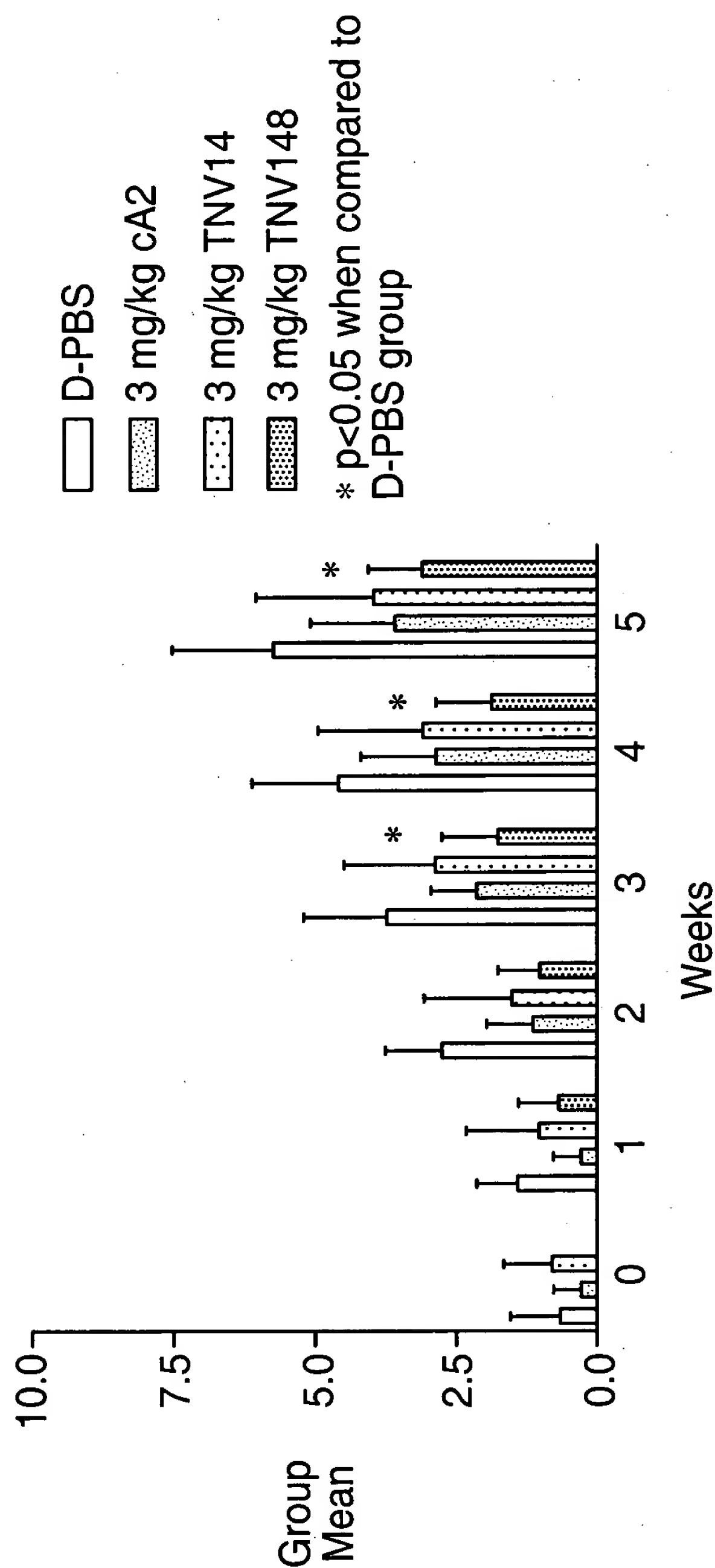
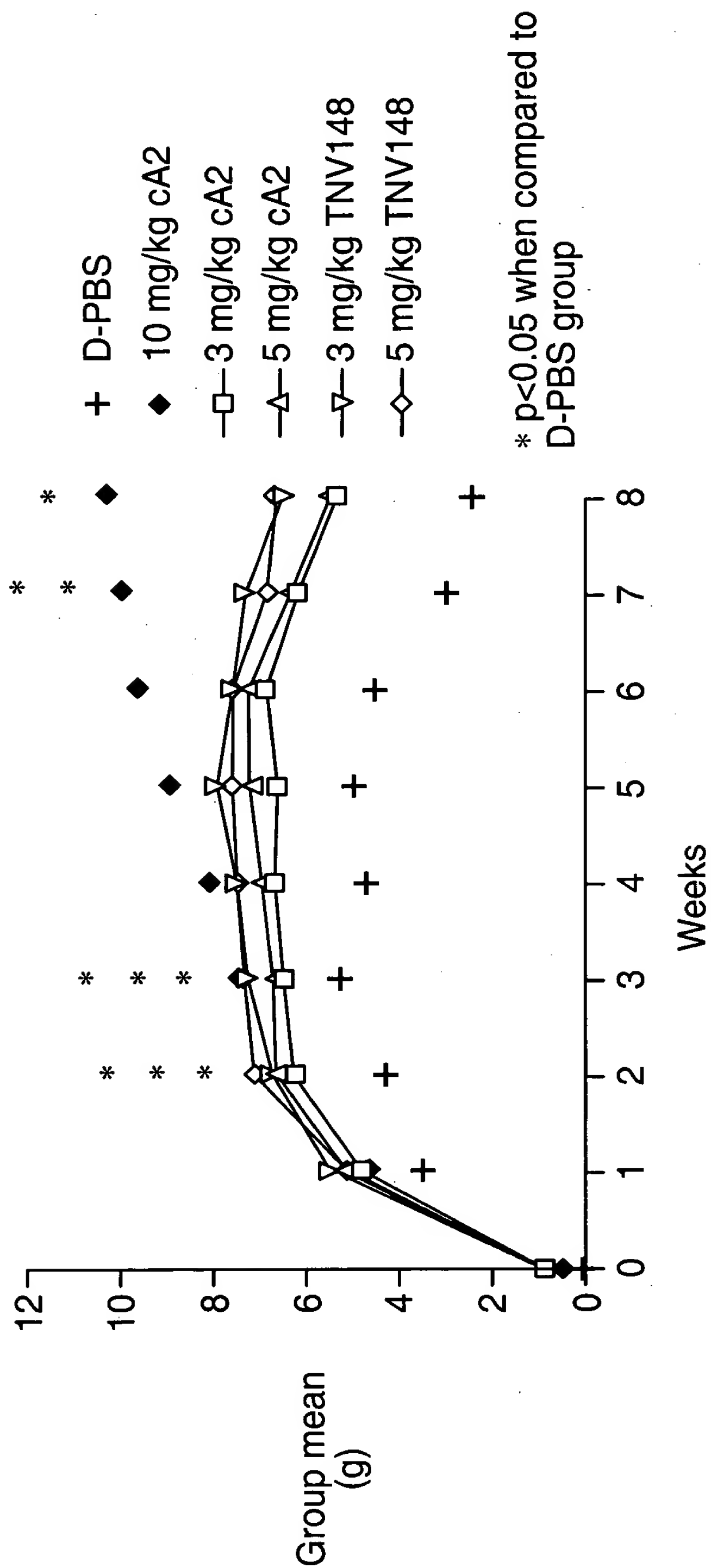


FIG. 13C

Arthritic Index



Change in Body Weight



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FIG. 15

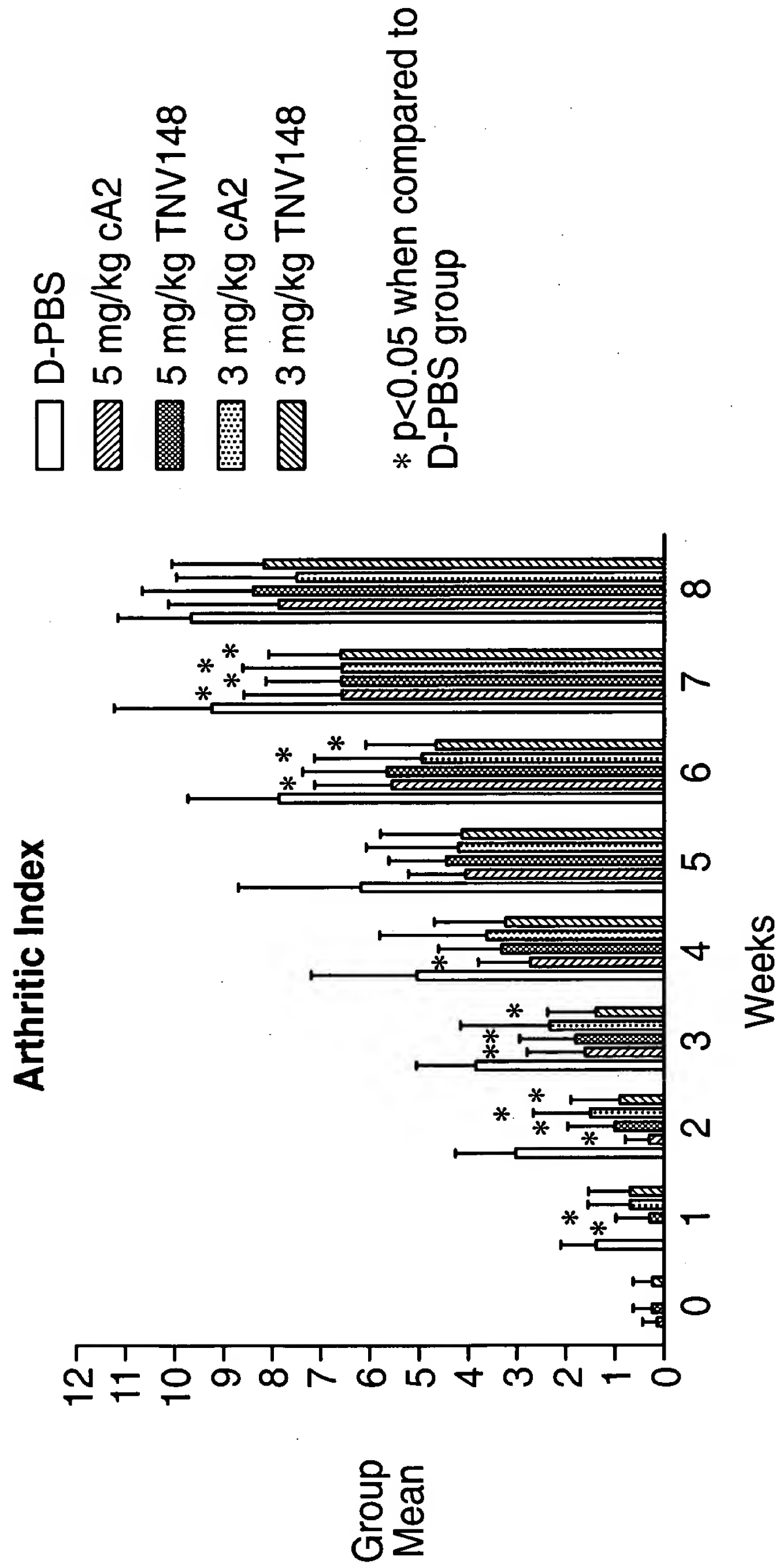


FIG. 16

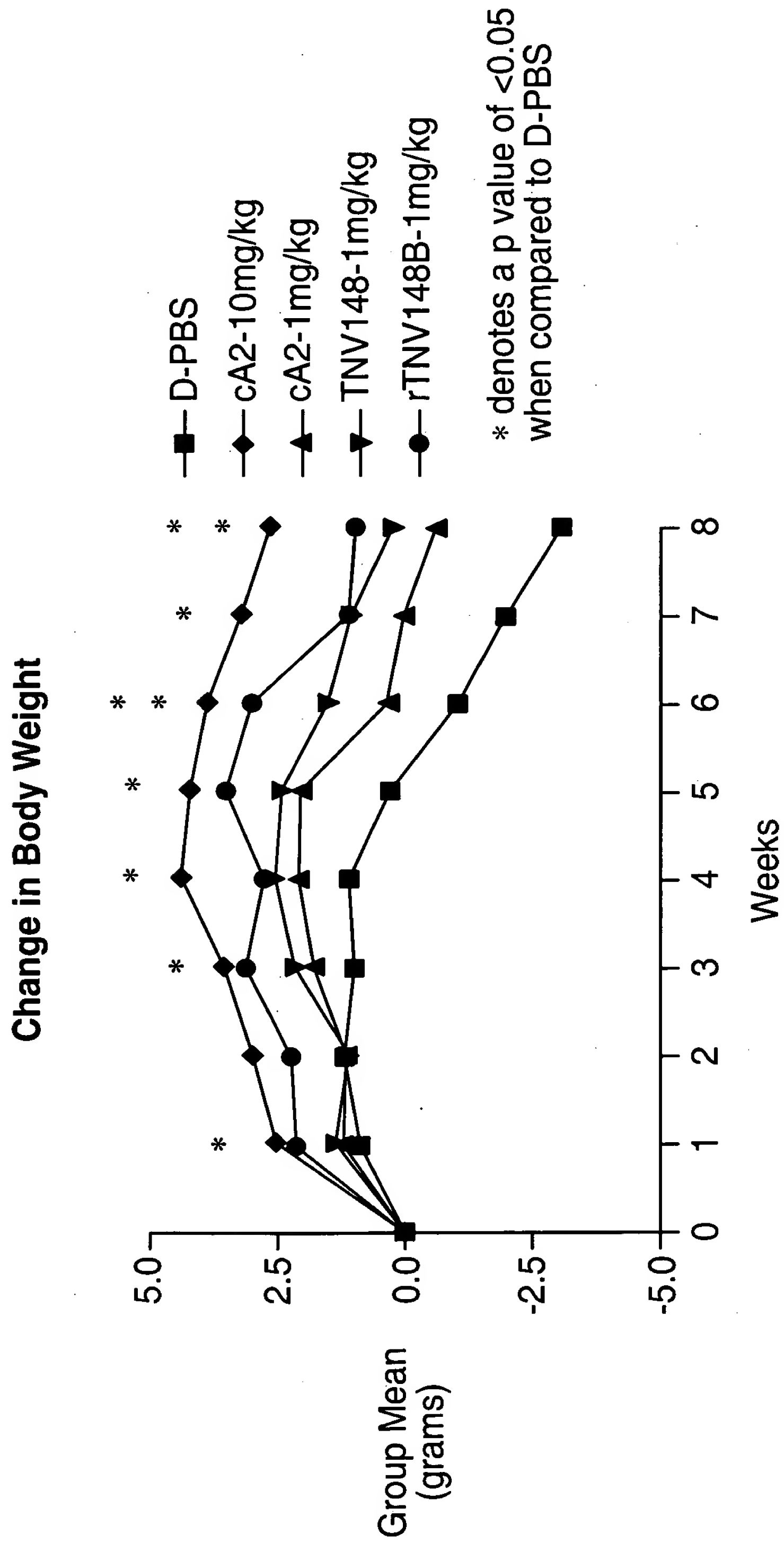


FIG. 17

Arthritic Index

